

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2327	(600/509,513,514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/05 08:44
S1	79130	((("600") or ("607")).CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/24 10:47
S2	129	S1 and "signal separation"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 12:04
S3	1037	(600/509).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/30 15:42
S4	323	(600/513).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/30 18:06
S5	44	(600/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/30 18:06
S6	12	("4830006"   "4905706"   "5012815"   "5466254"   "5476483"   "5554177"   "5687738"   "5700283"   "6044298"   "6190324"   "6409675"   "6411840").PN. OR ("6643548").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 18:07
S7	44	("3048166"   "3052756"   "3280817"   "3762397"   "4450838"   "4549552"   "4586514"   "4628939").PN. OR ("4905706").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 18:08
S8	40	("4815469"   "4915113"   "5040533"   "5040538"   "5113869"   "5342408"   "5365932"   "5368040"   "5404877"   "5411031"   "5454838"   "5496351"   "5511553"   "5518001"   "5544661"   "5556421"   "5720770"   "5743268"   "5788643"   "5791344"   "5792197"   "5836889"   "5904708"   "5935081"   "6045513"   "6077227"   "6264611"   "6312378").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 18:15

		OR ("6409675").URPN.				
S9	105	("3442264"   "3573394"   "3799147"   "3903733"   "4008408"   "4054808"   "4094308"   "4146955"   "4183249"   "4226248"   "4234813"   "4255791"   "4268912"   "4308870"   "4376302"   "4385255"   "4387378"   "4406967"   "4413630"   "4424465"   "4428380"   "4458693"   "4491051"   "4509527"   "4546777"   "4549551"   "4586514"   "4628321"   "4630203"   "4656385"   "4697597"   "4700712"   "4712565"   "4742458"   "4777961"   "4781200"   "4784154"   "4792145"   "4803986"   "4803996"   "4805633"   "4812976"   "4821584"   "4840183"   "4842411"   "4862144"   "4862361"   "4862897"   "4905706"   "4924875"   "4928705"   "4947859"   "4957369"   "4967760"   "4991581"   "5002058"   "5002060"   "5003605"   "5010889"   "5012815"   "5025809"   "5035247"   "5036857"   "5056201"   "5086776"   "5109863"   "5129403"   "5140992"   "5164627"   "5176153"   "5213108"   "5218969"   "5301679"   "5315512"   "5337752"   "5363401"   "5365937"   "5381804"   "5394876"   "5455385"   "5501229"   "5551437"   "5553113"   "5595188"   "5598845"   "5617869"   "5638823"   "5673702"   "5680513"   "5686917"   "5687738"   "5704365"   "5718233"   "5724967"   "5724968"   "5724983"   "5727561"   "5785657"   "5796920"   "5807268"   "5853005"   "Re32180").PN. OR ("6193668").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 18:20

S10	22	("4722342"   "4763655"   "4846195"   "4886064"   "4896068").PN. OR ("5040533").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/30 18:26
S11	1	("5404877").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 09:09
S12	1	("6409675").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 10:00
S13	79231	((("600") or ("607")).CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 10:00
S14	320	S13 and extravascular	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 10:01
S15	88	S14 and (ecg ekg)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 10:07
S16	14	("4784162"   "4827943"   "5606969"   "5919141"   "5961446"   "5961450"   "6050940"   "6375614"   "6409675"   "6415174"   "6454708"   "6480733"   "6491639"   "6628986").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 10:14
S17	24	S13 and "blind source separation"	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 13:15
S18	1039	(600/509).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 13:15
S19	604	S18 and filter\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 13:16
S20	176	S19 and (sound or microphone or accelerometer)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 14:35
S21	736	detect\$4 near2 cardiac near2 signal	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 14:36
S22	50	S21 and "heart sound"	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 15:07
S23	2	"6792308"	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 15:21

S24	1	("20030032889").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 15:21
S25	5	((("5704365") or ("6409675") or ("20030032889") or ("5935081") or ("6792308")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/01 15:32
S26	5	(US-20030032889-\$).did. or (US-5704365-\$ or US- 5935081-\$ or US-6409675- \$ or US-6792308-\$).did.	US-PGPUB; USPAT	OR	ON	2005/12/01 15:32
S27	18	("20030032889"   "4784162"   "4827943"   "5606969"   "5704365"   "5919141"   "5935081"   "5961446"   "5961450"   "6050940"   "6375614"   "6409675"   "6409675"   "6415174"   "6454708"   "6480733"   "6491639"   "6628986"   "6792308").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 15:38
S28	1108	(600/509).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 09:07
S29	354	(600/513).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 09:10
S30	47	(600/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 09:11
S31	419	(600/515).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 09:11
S32	1	("20050220636").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 14:54
S33	183	("600".clas. "607".clas.) and ("blind source separation" bss ica "independent component anylysis")	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 13:50
S34	5	("4736751"   "5601081"). PN. OR ("6544170").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 11:55
S35	6632	powell.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 13:50
S36	429	S35 and thomas	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 13:51

S37	14	S36 and bell	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 13:53
S38	100	(600/511).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/21 13:54
S39	45	S38 and pulse	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 13:54
S40	22	(US-20030032889-\$ or US-20060047215-\$ or US-20020095090-\$ or US-20030088164-\$ or US-20030166996-\$ or US-20050192500-\$ or US-20050267377-\$ or US-20050277841-\$).did. or (US-5935081-\$ or US-6792308-\$ or US-6409675-\$ or US-5704365-\$ or US-6371921-\$ or US-6424960-\$ or US-6544170-\$ or US-4736751-\$ or US-5601081-\$ or US-6936012-\$ or US-7018338-\$ or US-7037267-\$ or US-3811428-\$ or US-4781200-\$).did.	US-PGPUB; USPAT	OR	ON	2006/08/21 14:36
S41	21	(US-5556421-\$ or US-5496351-\$ or US-5411031-\$ or US-5404877-\$ or US-7047071-\$ or US-6409675-\$ or US-7035684-\$ or US-6869404-\$ or US-6600949-\$ or US-6589188-\$ or US-5113869-\$ or US-6699200-\$ or US-6501983-\$ or US-6480733-\$ or US-6527729-\$ or US-5388578-\$ or US-5331966-\$ or US-5313953-\$ or US-7016721-\$ or US-6115630-\$ or US-6115628-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/23 15:04

S42	112	("3478746"   "3940692"   "4210149"   "4310000"   "4336810"   "4411271"   "4481950"   "4513743"   "4552154"   "4562846"   "4586508"   "4625730"   "4679144"   "4681117"   "4875483"   "4905708"   "5014701"   "5042497"   "5052399"   "5086772"   "5088488"   "5111816"   "5113869"   "5133350"   "5135004"   "5193550").PN. OR ("5313953").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/23 15:19
S43	87	(607/23).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/23 15:25
S44	17	S43 and \$thoracic	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/23 15:26
S47	61	("4223679"   "4295474"   "4625730"   "4692719"   "4702253"   "4825869"   "4886064"   "4901725"   "5003976"   "5042497"   "5058583"   "5076272"   "5088491"   "5113869"   "5197467"   "5201808").PN. OR ("5404877").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/24 08:53
S48	23	("4936304"   "5304208"). PN. OR ("5496351").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/24 12:36
S49	1681	(600/509,513,514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 08:09
S50	17	("20030083583"   "20040106957"   "5188117"   "5564430"   "5620466"   "5658317"   "5662688"   "5702425"   "5755738"   "5891171"   "5957857"   "6029086"   "6112119"   "6418343"   "6434426"   "6493584"   "6584351").PN. OR ("7155275").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:25
S51	8	("4091818"   "5313953"   "5331966"   "5511553"   "5522860"   "5697958"   "6412490").PN. OR ("6584351").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 09:06

S52	1	("5010887").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 09:06
S53	57	("3858034"   "4000461"   "4129133"   "4173230"   "4250889"   "4263919"   "4458692"   "4478224"   "4686988"   "4712555"   "4790317"   "4830020"   "4913146").PN. OR ("5010887").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 09:07
S54	79	S50 S51 S52 S53	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 09:08
S55	12	("4712555"   "4788980"   "4799493"   "4940052"   "4944298"   "4960123"   "5466254"   "5817134"   "5868680"   "5871507"   "5967995").PN. OR ("6493584").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 09:20
S56	10	("4408615"   "4420815"   "4537200"   "5010887"   "5687735").PN. OR ("6041250").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 09:28
S57	29	("3677260"   "3927663"   "3985142"   "4135159"   "4173230"   "4243045"   "4379459"   "4516579"   "4638808"   "4649931"   "4766902").PN. OR ("4960123").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 10:29
S58	24	("600".clas. "607".clas.) and (verif\$ confirm\$) with (heart adj sound)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 10:46
S59	1	("4763646").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 10:37
S60	44	("2368207"   "3156235"   "3241556"   "3358690"   "3638656"   "3650277"   "3659615"   "3857399"   "4428378"   "4545380"   "4549548"   "4550732"   "4559946"   "4579119").PN. OR ("4763646").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 10:37

S61	210	("600".clas. "607".clas.) and (verif\$ confirm\$) same (ecg ekg electrocardiogram electrocardiograph) same (microphone "heart sound" impedance pressure)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 11:14
S62	308	("600".clas. "607".clas.) and (correlat\$5) same (ecg ekg electrocardiogram electrocardiograph) same (microphone "heart sound" impedance pressure)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 11:14
S63	78	("600".clas. "607".clas.) and (correlat\$5) with (ecg ekg electrocardiogram electrocardiograph) with (microphone "heart sound" impedance pressure)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 11:14
S64	15	(US-20070066907-\$ or US-20050240234-\$ or US-20040116969-\$ or US-20060064026-\$ or US-20030055343-\$).did. or (US-6584351-\$ or US-5010887-\$ or US-6493584-\$ or US-6650940-\$ or US-6491639-\$ or US-4763646-\$ or US-6440082-\$ or US-5702427-\$ or US-7096064-\$ or US-6527729-\$).did.	US-PGPUB; USPAT	OR	ON	2007/03/22 15:24
S65	0	"607".clas. and nonintrathoracic	US-PGPUB; USPAT	OR	ON	2007/03/22 15:24
S66	32	"607".clas. and "non-intrathoracic"	US-PGPUB; USPAT	OR	ON	2007/03/22 15:25
S67	6	"607".clas. and "extrathoracic"	US-PGPUB; USPAT	OR	ON	2007/03/22 15:26
S68	125	"607".clas. and "extracardiac"	US-PGPUB; USPAT	OR	ON	2007/03/22 15:26
S69	254	bardy.in.	US-PGPUB; USPAT	OR	ON	2007/03/22 16:24
S70	436	(600/528).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 15:28
S71	21	S69 and sound	US-PGPUB; USPAT	OR	ON	2007/03/22 16:22
S72	3220	(607/4,5,9).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/22 16:24

S73	23	S72 and "heart sound" same (ecg ekg electrocardiogra\$)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:28
S74	19	S72 and skelet\$ same (ecg ekg electrocardiogra\$)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:29
S75	17	(US-5388578-\$ or US-6115628-\$ or US-5411031-\$ or US-5313953-\$ or US-6869404-\$ or US-5331966-\$).did. (US-20050240234-\$).did. or (US-RE35122-\$ or US-5337752-\$ or US-5178154-\$ or US-4446873-\$ or US-4428380-\$ or US-RE30750-\$ or US-3318303-\$ or US-5700283-\$ or US-5687738-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 10:33
S76	54	("3253595"   "4289138"   "4387717"   "4424818"   "4579119"   "4595012"   "4892102"   "4895152"   "4995389"   "5087243"   "5105826"   "5133422"   "5158097"   "5172694"   "5203348").PN. OR ("5388578").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 11:08
S77	17	S76 and (sound microphone accelerometer "blood pressure")	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 11:08
S78	62	(US-20070066907-\$ or US-20070021676-\$ or US-20030055343-\$ or US-20070055167-\$ or US-20050192500-\$ or US-20050267377-\$ or US-20030166996-\$ or US-20030088164-\$ or US-20030032889-\$ or US-20040116969-\$ or US-20060047215-\$ or US-20020095090-\$ or US-20050137490-\$ or US-20050277841-\$ or US-20050240234-\$ or US-20030149369-\$ or US-20060064026-\$).did. or (US-4825869-\$ or US-5010887-\$ or US-7151957-\$ or US-6371921-\$ or US-4830020-\$ or US-6424960-\$ or US-4736751-\$ or US-3811428-\$ or US-4763646-\$ or US-	US-PGPUB; USPAT	OR	ON	2007/04/11 12:29

		6493584-\$ or US-6792308-\$ or US-7037267-\$ or US-6544170-\$ or US-5554177-\$ or US-6936012-\$ or US-4781200-\$ or US-4546777-\$ or US-6527729-\$ or US-6491639-\$ or US-5197467-\$ or US-5704365-\$ or US-6366811-\$ or US-5935081-\$ or US-6041250-\$ or US-5496351-\$ or US-5404877-\$).did. or (US-6440082-\$ or US-7035684-\$ or US-5331966-\$ or US-4960123-\$ or US-6409675-\$ or US-6685649-\$ or US-6584351-\$ or US-5702427-\$ or US-7096064-\$ or US-7139609-\$ or US-7018338-\$ or US-6650940-\$ or US-5601081-\$ or US-5388578-\$ or US-6501983-\$ or US-5337752-\$ or US-5178154-\$ or US-4446873-\$ or US-RE30750-\$).did.				
S79	4	S75 and "45"	US-PGPUB; USPAT	OR	ON	2007/04/11 12:29
S80	7	S75 and S78	US-PGPUB; USPAT	OR	ON	2007/04/11 12:29
S81	11	re30750	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/12 08:09
S82	1	("re30750").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/12 08:26
S83	1	("20050240234").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/12 10:48
S84	1	("5388578").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/12 11:49
S85	1691	(600/509,513,514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/12 11:49
S86	1762	"60"\$ clas. and (signal with separation)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/22 15:47
S87	1269	"60"\$ clas. and ((signal near3 separation) or ((principal independent) near3 component near3 analysis))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/22 15:48

S88	1643	"60".\$.clas. and (((signal source) near3 separation) or ((principal independent) near3 component near3 analysis))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/22 15:49
S89	1350	"60".\$.clas. and (((signal source) near2 separation) or ((principal independent) near2 component near2 analysis))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/22 15:50
S90	763	S88 and (heart cardiac)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/22 15:50
S91	1645	"60".\$.clas. and (((signal source) near3 separation) or ((principal independent) near3 component near3 analysis))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 08:25
S92	763	S91 and (heart cardiac)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 08:25
S93	763	S92	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 08:25
S94	9	("3991365"   "4086917"   "4143650"   "5524631"   "5620003"   "5987983"   "5989193"   "6030347"   "6450957").PN. OR ("6942621").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 09:48
S95	1	("4378022").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/23 09:48
S96	1830	(600/509,513,514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/24 10:47
S97	1	("20050240234").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 10:16
S98	1	("re30750").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 11:25
S99	1	("5388578").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 14:09
S100	1	("5919216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/28 09:44

S101	1	("5031617").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/28 09:47
S102	1	("6853862").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/28 10:09

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	7	"600".clas. and (cardiac with "source separation").clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/03/05 08:50

**3/ 5/ 2010 8:58:50 AM****C:\ Documents and Settings\ mkahelin\ My Documents\ EAST\ Workspaces\ 10784478.wsp**